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Amendments to the Claims

**This listing of the claims will replace all prior versions, and listings, of claims in this application.**

Listing of Claims

**1-39. (Cancelled)**

**40. (Previously presented)** An isolated nucleic acid molecule comprising the nucleotide sequence set forth in SEQ ID NO:1, or a complement thereof.

**41. (Previously presented)** An isolated nucleic acid molecule consisting of the nucleotide sequence set forth in SEQ ID NO:1, or a complement thereof.

**42. (Previously presented)** An isolated nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence set forth in SEQ ID NO:2, or a complement thereof.

**43. (Previously presented)** An isolated nucleic acid molecule which encodes a polypeptide consisting of the amino acid sequence set forth in SEQ ID NO:2, or a complement thereof.

**44. (Currently amended)** An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a complement thereof, wherein said nucleotide sequence encodes a phosphotransferase enzyme II ~~phosphoenolpyruvate: sugar phosphotransferase system~~ polypeptide which is capable of modulating the transport of a high-energy carbon molecule.

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**45. (Currently amended)** An isolated nucleic acid molecule consisting of a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a complement thereof, wherein said nucleotide sequence encodes a phosphotransferase enzyme II ~~phosphoenolpyruvate: sugar phosphotransferase system~~ polypeptide which is capable of modulating the transport of a high-energy carbon molecule.

**46. (Currently amended)** An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a complement thereof, wherein said nucleotide sequence encodes a phosphotransferase enzyme II ~~phosphoenolpyruvate: sugar phosphotransferase system~~ polypeptide which is capable of modulating the production of a fine chemical.

**47. (Currently amended)** An isolated nucleic acid molecule consisting of a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a complement thereof, wherein said nucleotide sequence encodes a phosphotransferase enzyme II ~~phosphoenolpyruvate: sugar phosphotransferase system~~ polypeptide which is capable of modulating the production of a fine chemical.

**48-49 (Cancelled)**

**50. (Previously presented)** An isolated nucleic acid molecule comprising the nucleic acid molecule of any one of claims 40-43, and a nucleotide sequence encoding a heterologous polypeptide.

**51. (Previously presented)** A vector comprising the nucleic acid molecule of any one of claims 40-43.

**52. (Previously presented)** The vector of claim 51, which is an expression vector.

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53. (Previously presented) A host cell transfected with the expression vector of claim 52.

54. (Previously presented) The host cell of claim 53, wherein said cell is a bacterial cell.

55. (Previously presented) The host cell of claim 54, wherein said cell belongs to the genus *Corynebacterium* or *Brevibacterium*.

56. (Previously presented) The host cell of claim 55, wherein the expression of said nucleic acid molecule results in the modulation in production of a fine chemical by said cell.

57. (Previously presented) The host cell of claim 56, wherein said fine chemical is selected from the group consisting of: organic acids, proteinogenic and nonproteinogenic amino acids, purine and pyrimidine bases, nucleosides, nucleotides, lipids, saturated and unsaturated fatty acids, diols, carbohydrates, aromatic compounds, vitamins, cofactors, polyketides, and enzymes.

58. (Currently amended) The isolated nucleic acid molecule of any one of claims 42, 43, 44, or 45 40-45, wherein said polypeptide is capable of modulating the transport of sucrose.